JT40 HORIZONTAL DIRECTIONAL DRILL



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Built from direct operator feedback and input, the JT40 is a modern evolution of the industry-leading horizontal directional drill (HDD) units from the Ditch Witch® organization. Designed with next-generation enhancements, the machine features several pending patents to optimize drilling productivity and operator comfort. The JT40 offers boosted power—20 more horsepower than some competitive models in its class—to maximize drilling performance.

The compact, yet powerful machine reduces jobsite footprint and has increased pipe-rack capacity compared to previous models, for enhanced productivity. Additionally, the new machine boasts a premier operator interface and station for a more transparent view into all machine operations, improved operator comfort and enhanced operational control.

WE'RE IN THIS TOGETHER.



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JT40 HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

Spindle speed, max	U.S. 225 rpm	METRIC
Spindle torque, max	5,500 ft·lb	7460 N·m
Carriage thrust travel speed	180 fpm	55 m/min
Carriage pullback travel speed	180 fpm	55 m/min
Thrust force	40,000 lb	178 kN
Pullback force	40,000 lb	178 kN
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	3 mph	4.8 km/h
POWER (TIER 4)		
Engine	Cummins® QSB4.5	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	4	
Displacement	275 in ³	4.5 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	160 hp	119 kW
Rated speed	2,300 rpm	
Emissions compliance	EPA Tier 4	EU Stage IV
POWER (TIER 3, LRC)		
Engine	Cummins QSB4.5	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	4	
Displacement	275 in ³	4.5 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	148 hp	110 kW
Rated speed	2,300 rpm	
Emissions compliance	EPA Tier 3	Stage IIIA
DIMENSIONS		J
Length	290 in	7.37 m
Width, w/open station	89 in	2.26 m
Width, w/cab	93 in	2.36 in
Height	97 in	2.46 m
Operating mass, no pipe, no cab	20,500 lb	9300 kg
Entry angle	20-29°	seec ng
Angle of approach	17°	
Angle of departure	17°	
WEIGHT CONFIGURATION	17	
Cab option	690 lb	310 kg
•		310 kg
Standard anchor option	750 lb	340 kg
HD anchor option	1,290 lb	590 kg
Deduct Tier 3 engine option	165 lb	70 kg

DRILLING FLUID SYSTEM	U.S.	METRIC
Pressure, max	1,000 psi	69 bar
Flow, max	70 gpm	265 min
FLUID CAPACITIES		
Hydraulic reservoir	17 gal	64 L
Fuel tank	56 gal	212 L
Engine lubrication oil, w/filter	14 qt	13.2 L
Engine cooling system	24 qt	22.7 L
Antifreeze tank	8 gal	30 L
Diesel exhaust fluid tank	3.6 gal	13.6 L
POWER PIPE® HD		
Length of dril pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.13 in	80 mm
Diameter of drill pipe	2.81 in	71 mm
Bend radius, min	146 ft	45 m
Weight of drill pipe, lined	150 lb	68 kg
Weight of drill pipe and large box (40 pipe)	7,140 lb	3240 kg
Weight of drill pipe and small box (20 pipe)	3,797 lb	1720 kg
HIWS1 PIPE		
Length of drill pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.10 in	79 mm
Diameter of drill pipe	2.63 in	67 mm
Bend radius, min	145 ft	44 m
Weight of drill pipe	165 lb	75 kg
Weight of drill pipe and large box (35 pipe)	6,915 lb	3140 kg
Weight of drill pipe and small box (15 pipe)	3,287 lb	1490 kg
BATTERY (2 USED)		
SAE reserve capacity rating	195 min	4.57 m
SAE cold crank rating @ 0°F (-18°C)	950 amps	95 mm
NOISE LEVEL		
Operator sound pressure per ISO 6396	< or = 85 dBA	
Operator sound pressure per ISO 6396, w/cab	< or = 75 dBA	
Exterior sound power per ISO 6395	< or = 105 dBA	

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.





THE DITCH WITCH® HDD SYSTEM INCLUDES:



HDD TOOLING

For your directional drill, we offer a complete line of genuine Ditch Witch HDD tooling, including drill bits, backreamers, drill pipe and beacon housings.



MUD MIXERS

Ditch Witch fluid-management systems include the innovative FM13V, a fluid-mixing system that features a pump that lubricates itself during mixing and works so efficiently that it delivers 20 percent more fluid than other models.



VACUUM EXCAVATORS

Ditch Witch vacuum excavators are designed for a tremendous range of soft-excavation and cleanup tasks, including all manner of non-hazardous spills in and around the directional drilling jobsite. They're the most powerful and most efficient vac systems on the market.



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